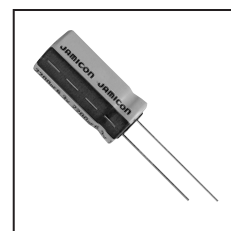


- Standard low leakage current series.
- Suitable for Hi-Fi pre-amplifiers and TV oscillation loop circuits.
- Corresponding product to RoHS

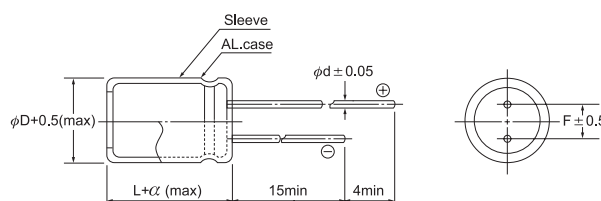


● SPECIFICATION

Item	Characteristic							
Operation Temperature Range	-40 ~ +85°C							
Rated Working Voltage	10 ~ 63VDC							
Capacitance Tolerance (120Hz 20°C)	±20%(M)				+30% -10%(Q)			
Leakage Current (20°C)	$I \leq 0.002CV$ or $1 (\mu A)$ whichever is greater after 2 minutes				I : Leakage Current (μA) C : Rated Capacitance (μF) V : Working Voltage (V)			
Surge Voltage (20°C)	W.V.	10	16	25	35	50	63	
	S.V.	13	20	32	44	63	79	
Dissipation Factor (tan δ) (120Hz 20°C)	W.V.	10	16	25	35	50	63	
	tan δ	0.20	0.16	0.14	0.12	0.10	0.10	
Low Temperature Stability	Impedance ratio at 120Hz							
	Rated Voltage (V)	10	16	25	35	50	63	
	-25°C / +20°C	4	4	4	4	4	4	
	-40°C / +20°C	8	8	8	8	8	8	
Load Life	After 2000 hours application of W.V. and +85°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage \leq rate working voltage)							
	Capacitance Change	$\leq \pm 15\%$ of initial value						
	Dissipation Factor	$\leq 150\%$ of initial specified value						
	Leakage current	\leq initial specified value						
Shelf Life	At +85°C no voltage application after 1000 hours the capacitor shall meet the limits for load life characteristics. (with voltage treatment)							

● DIMENSIONS (mm)

ϕD	5	6.3	8	10	12.5
F	2.0	2.5	3.5	5.0	5.0
d	0.5	0.5	0.6	0.6	0.6
α	1.5	1.5	1.5	1.5	2.0



● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
 Max ripple current : mA(rms) 85°C 120Hz

μF	V(DC) Item	10		16		25	
		DxL	R.C.	DxL	R.C.	DxL	R.C.
10			→	5x11	48	6.3x11	60
22		5x11	65	6.3x11	80	8x11	100
33		6.3x11	90	6.3x11	100	8x11	130
47		6.3x11	110	8x11	140	10x12.5	160
100		8x11	180	10x12.5	210	10x16	250
220		10x16	310	10x20	390	12.5x20	410
330		10x20	420	12.5x20	470	12.5x25	560
470		12.5x20	500	12.5x20	560		
1000		12.5x25	810				

μF	V(DC) Item	35		50		63	
		DxL	R.C.	DxL	R.C.	DxL	R.C.
10		6.3x11	65	8x11	80	8x11	80
22		8x11	110	10x12.5	130	10x16	140
33		10x12.5	140	10x16	170	10x16	170
47		10x12.5	170	10x16	210	10x20	230
100		10x20	300	12.5x20	330	12.5x25	360
220		12.5x25	490				

All blank voltage on sleeve marking is the same voltage as" → "point to.